

FIELD MODIFICATION APPROVAL FORM
LFM-OU3- 1
Libby OU3 Phase II Sampling & Analysis Plan

Requested by: Bonnie Lavelle, EPA Remedial Project Manager

Date: May 9, 2008

Description of Deviation:

This field modification applies only to Element 2, Spring Runoff Monitoring, only during the time period when surface water samples are collected for rapid turn around laboratory analysis and only to samples from the following stations:

Tailings Impoundment (TP)
Mill pond (MP)

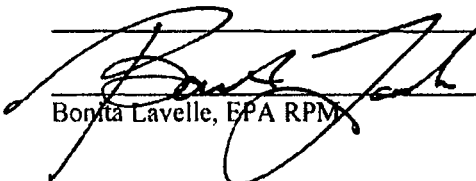
Field quality control samples will be increased to one duplicate and one split sample at each of these two stations for each weekly sampling event. Field quality control samples will be submitted for rapid turn around time analysis. Once water has been collected to support the toxicity test described in Element 5, this field modification no longer applies.

The attached revised Field Sample Data Sheet will be used to identify quality control samples.

☒ EPA Region 8 has reviewed this field modification approves as proposed.

☐ EPA Region 8 has reviewed this field modification and approves with the following exceptions:

☐ EPA Region 8 has reviewed this field modification and does not agree with the proposed approach for the following reasons:


Bonita Lavelle, EPA RPM

5/9/08
Date

LIBBY OU3 PHASE 2 FIELD SAMPLE DATA SHEET (FSDS) rev2

SURFACE WATER AND SEDIMENT

Field Logbook No: _____ Page No: _____

Station ID: _____ Station Type (circle one): Stream Pond Seep Sampling Date: _____

GPS Coordinate System: UTM Zone 11 North, WGS84 datum, meters

X coord: _____ m Y coord: _____ m

Elevation Coordinate System: WGS84, meters Elevation: _____ mSampling Team: MWH Sampler Initials: _____

Station Comments: _____

WATER QUALITY PARAMETERS

| Time (hh:mm) | Temp. (°C) | pH | Specific Conductance (mS/cm) | | Diss. O ₂ (mg/L) | ORP (mV) | Turbidity (NTU) | Sampling Depth (ft) | Total Depth (ft) | Discharge (cfs) |
|-----------------|---------------|----|---------------------------------|--------|--------------------------------|-------------|--------------------|------------------------|---------------------|--------------------|
| | | | @ Field Temp | @ 25°C | | | | | | |
| | | | | | | | | | | |

Water Quality Comments: _____

SURFACE WATER AND SEDIMENT SAMPLES

| Data Item | Sample 1 | | Sample 2 | | Sample 3 | |
|--|---|-----------|---|-----------|---|-----------|
| Index ID (place pre-printed label in field provided) | | | | | | |
| Media (circle one): | Surface Water | Sediment | Surface Water | Sediment | Surface Water | Sediment |
| Field QC Type (circle one): | FS (field sample) FD (field duplicate) SP (field split) For FD/SP, Parent ID: _____ EB (equip blank) FB (field blank) TB (trip blank) Cooler: _____ PE (perf. eval.) ID: _____ | | FS (field sample) FD (field duplicate) SP (field split) For FD/SP, Parent ID: _____ EB (equip blank) FB (field blank) TB (trip blank) Cooler: _____ PE (perf. eval.) ID: _____ | | FS (field sample) FD (field duplicate) SP (field split) For FD/SP, Parent ID: _____ EB (equip blank) FB (field blank) TB (trip blank) Cooler: _____ PE (perf. eval.) ID: _____ | |
| Archive Blank (circle) | Yes | No | Yes | No | Yes | No |
| Sample Time (hh:mm) | | | | | | |
| For Sediment: | | | | | | |
| Sample Type (circle one): | Grab | Composite | Grab | Composite | Grab | Composite |
| | # of Comp: _____ | | # of Comp: _____ | | # of Comp: _____ | |
| Sample Depth | Start Depth (in): _____ End Depth (in): _____ | | Start Depth (in): _____ End Depth (in): _____ | | Start Depth (in): _____ End Depth (in): _____ | |
| Field Comments: | | | | | | |
| Cooler: | | | | | | |
| Entered by (Provide initials): | | | Validated by (Provide initials): | | | |

For Data Entry Completion (Provide Initials)

Completed by

QC by